

How to perform the IR cloning on the HP44H AKAN L RCU



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Last updated: Sep 06, 2024 • 4 min read • 3 people viewed

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Some users may prefer using the STB remote control (RCU) to operate certain functions of their TV. This can be achieved by cloning specific TV keys to the STB RCU. However, it is not possible to clone all TV keys. The keys that can be cloned are listed below:

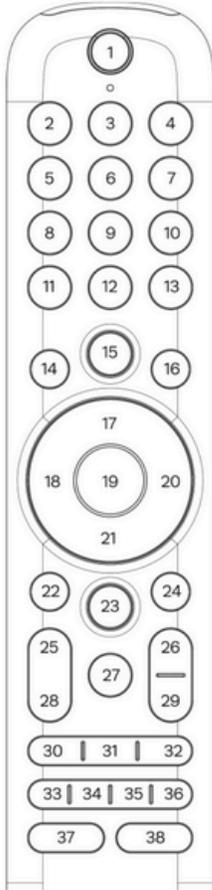
- Power
- Volume +
- Mute
- Volume -

Please note the following limitations and considerations related to this process:

1. Carefully review the "Notes" below regarding key cloning.
2. [The cloned keys](#) will be transmitted via IR technology, not BLE.
3. To use the cloned keys, the STB RCU must be switched to TV-locked mode, following the instructions under the '[Device Select](#)' section. The user can switch back to STB-locked mode at any time. In STB-locked mode, the STB RCU will function as usual.
4. Keys that have not been cloned from among the cloneable keys will not transmit a key code in TV-locked mode.
5. CEC functions may be impacted when using TV-cloned keys via the STB RCU. Please review the CEC settings on both the TV and the STB to ensure they align with your expectations.

IR Cloning Keys

The user can program the cloneable keys (Standby Button, Volume +, Volume – and Mute) with functions from TV RCU.



Key Layout

Thus, in order to clone an IR code, the procedure is as follows:

1. Place the HP44H RCU on a stable and flat surface.
2. Place the TV remote, whose functions will be cloned from, directly in front of the HP44H RCU, and at a maximum distance of 5 cm from it; the Infra-RED of the TV remote must face the HP44H RCU IR window.
3. Simultaneously press and hold Settings (key #16) and the target cloneable key for 3 seconds. Entry in setup is confirmed by the LEDs blinking twice and remaining On.
4. Release the keys.
5. Press and hold the key to be cloned from the original TV remote control.
6. The HP44H RCU shall clone the function from the source TV remote and the LEDs will perform the Success Blink.
7. The user can release the key of the original remote.
8. **The newly cloned IR code will be associated with the target key and will be transmitted whenever that key is pressed (if Device is locked to TV)**
9. The HP44H RCU will turn Off the LEDs, exit the setup and return to idle state.

⚠ Notes:

- The cloning feature is optimized to capture and process IR information in the frequency bandwidth of 36 kHz ~ 56 kHz, although it can process IR signals from 0 to 455 kHz.
- The process may abort if
 - After step 4, no IR is transmitted during 10 seconds.
 - Any of the remotes, source or HP44H RCU, have weak batteries. It is recommended to use this feature with brand new batteries.
 - The source and HP44H RCU are apart by more than 5 cm.
 - The IR LEDs from both remotes are not aligned and in line of sight.
 - The source RCU does not follow a typical TV RCU frame format.

Clear Cloned keys

The user can clear the current IR information for the Cloned keys, restoring the key behaviour to factory settings. This is initiated using the following procedure:

1. Press and hold Back (key #22) and Media (key #24) simultaneously for at least 3 seconds.
2. After 3 seconds the LED turns On, indicating that Clear Cloned keys Setup has been activated.
3. Release the keys.
 - a. If there is cloned data:
 - i. The RCU clears the configured Cloned keys.
 - ii. The LEDs perform the Success Blink
 - iii. Device Selection gets set to STB.
 - b. If there is no cloned data:
 - i. The LEDs perform the Error Blink
4. The RCU exits the setup and returns to idle mode

Device Selection

The Device Selection setup allows the user to lock the cloneable keys to one specific device (TV or STB). **By default, these keys are locked to STB.**

The procedure to change the Device Selection configuration is as follows:

1. Press and hold Apps (key #14) and Settings (key #16) simultaneously for 3 seconds.
2. The RCU confirms the Setup activation by turning On the LEDs.
3. Release the keys.
4. Press Volume Up (key #25) to lock cloneable keys to STB:
 - a. Device Selection gets set to STB.
 - b. The LEDs perform the Success Blink.
5. Press Volume Down (key #28) to lock cloneable keys to TV:
 - a. If there is cloned data:
 - i. Device Selection gets set to TV.
 - ii. The LEDs perform the Success Blink.
 - b. If there is no cloned data:
 - i. Device Selection remain unchanged.
 - ii. The LEDs perform the Error Blink.
6. If, at any stage, the Back (key #22) is pressed, the RCU aborts the setup and returns to idle mode:
 - a. The Red LED performs the Error Blink.
7. If steps 4 or 5 are skipped:
 - a. Device Selection configuration remains untouched.
 - b. The LEDs perform the Error Blink as soon as the Setup Timeout is reached.
8. Any other key press is ignored.
9. The RCU returns to idle mode.

# Key	Key Name	STB Function	TV function
1	Power	STB Power	TV Power
2	Digit 1	Digit 1	-
3	Digit2	Digit2	-
4	Digit3	Digit3	-
5	Digit4	Digit4	-
6	Digit5	Digit5	-
7	Digit6	Digit6	-
8	Digit7	Digit7	-
9	Digit8	Digit8	-
10	Digit9	Digit9	-
11	TXT	Teletext	-
12	Digit0	Digit0	-
13	Info	Info	-
14	Apps	Apps	-
15	Google Assistant	GoogleAssistant	-
16	Settings	Settings	-
17	CursorUp	CursorUp	-
18	CursorLeft	CursorLeft	-
19	OK	OK	-
20	CursorRight	CursorRight	-
21	CursorDown	CursorDown	-
22	Back	Back	-
23	Home	Home	-
24	Media	Media	-
25	Vol+	STBVolumeUp	TV Volume Up
26	Ch+	ChannelUp	-
27	Mute	STBMute	TV Mute
28	Vol-	STBVolumeDown	TV Volume Down
29	Ch-	Channel Down	-
30	Rew	Rewind	-
31	Play/Pause	Play/Pause	-
32	FF	FastForward	-
33	Red	Red	-
34	Green	Green	-
35	Yellow	Yellow	-
36	Blue	Blue	-
37	Netflix	Netflix	-
38	PrimeVideo	PrimeVideo	-